

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
 Data File : BF101778.D  
 Acq On : 27 Dec 2017 22:22  
 Operator : SJ/JU  
 Sample : I7064-03 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-2

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.004       | 493           | 496         | 514          | rBV      | 101047         | 190470        | 8.45%           | 0.564%        |
| 2         | 5.375       | 554           | 559         | 562          | rBV2     | 14144          | 24777         | 1.10%           | 0.073%        |
| 3         | 5.410       | 562           | 565         | 597          | rVV      | 1364544        | 2193678       | 97.37%          | 6.501%        |
| 4         | 6.434       | 736           | 739         | 758          | rBV      | 1497260        | 2252873       | 100.00%         | 6.676%        |
| 5         | 6.563       | 758           | 761         | 767          | rVV      | 2107356        | 2155830       | 95.69%          | 6.388%        |
| 6         | 6.604       | 767           | 768         | 774          | rVB2     | 43411          | 42866         | 1.90%           | 0.127%        |
| 7         | 6.786       | 796           | 799         | 809          | rBV      | 1008036        | 973744        | 43.22%          | 2.885%        |
| 8         | 6.939       | 822           | 825         | 840          | rBV      | 1633245        | 1704206       | 75.65%          | 5.050%        |
| 9         | 7.357       | 893           | 896         | 915          | rBV      | 1058644        | 1372144       | 60.91%          | 4.066%        |
| 10        | 7.516       | 921           | 923         | 932          | rVB2     | 24036          | 29378         | 1.30%           | 0.087%        |
| 11        | 8.069       | 1014          | 1017        | 1040         | rVB      | 1219333        | 1343074       | 59.62%          | 3.980%        |
| 12        | 8.792       | 1136          | 1140        | 1145         | rBV      | 50279          | 56031         | 2.49%           | 0.166%        |
| 13        | 8.886       | 1153          | 1156        | 1161         | rVB      | 27653          | 29813         | 1.32%           | 0.088%        |
| 14        | 9.145       | 1196          | 1200        | 1208         | rBV      | 2241214        | 2247831       | 99.78%          | 6.661%        |
| 15        | 9.210       | 1208          | 1211        | 1215         | rVV      | 73012          | 65291         | 2.90%           | 0.193%        |
| 16        | 9.251       | 1215          | 1218        | 1223         | rVB      | 30043          | 30266         | 1.34%           | 0.090%        |
| 17        | 9.416       | 1243          | 1246        | 1250         | rBV2     | 19589          | 32837         | 1.46%           | 0.097%        |
| 18        | 9.486       | 1256          | 1258        | 1261         | rVB2     | 26154          | 22821         | 1.01%           | 0.068%        |
| 19        | 9.545       | 1265          | 1268        | 1273         | rVB      | 119509         | 129463        | 5.75%           | 0.384%        |
| 20        | 9.692       | 1288          | 1293        | 1298         | rBV      | 43757          | 51423         | 2.28%           | 0.152%        |
| 21        | 9.739       | 1298          | 1301        | 1304         | rVB      | 146331         | 103195        | 4.58%           | 0.306%        |
| 22        | 9.827       | 1312          | 1316        | 1319         | rBV      | 1236509        | 1165533       | 51.74%          | 3.454%        |
| 23        | 9.857       | 1319          | 1321        | 1329         | rVB      | 117438         | 144416        | 6.41%           | 0.428%        |
| 24        | 9.980       | 1337          | 1342        | 1343         | rBV4     | 17560          | 26185         | 1.16%           | 0.078%        |
| 25        | 10.039      | 1347          | 1352        | 1354         | rBV      | 76993          | 93122         | 4.13%           | 0.276%        |
| 26        | 10.216      | 1378          | 1382        | 1383         | rBV      | 26736          | 26177         | 1.16%           | 0.078%        |
| 27        | 10.239      | 1383          | 1386        | 1389         | rVB      | 150418         | 117709        | 5.22%           | 0.349%        |
| 28        | 10.380      | 1406          | 1410        | 1416         | rVB      | 106779         | 109782        | 4.87%           | 0.325%        |
| 29        | 10.457      | 1419          | 1423        | 1426         | rBV3     | 45998          | 60716         | 2.70%           | 0.180%        |
| 30        | 10.539      | 1434          | 1437        | 1438         | rBV2     | 32085          | 25850         | 1.15%           | 0.077%        |
| 31        | 10.621      | 1447          | 1451        | 1463         | rBV      | 1029949        | 1190567       | 52.85%          | 3.528%        |
| 32        | 10.710      | 1463          | 1466        | 1470         | rBV      | 131198         | 125811        | 5.58%           | 0.373%        |
| 33        | 10.904      | 1497          | 1499        | 1501         | rBV2     | 26755          | 30545         | 1.36%           | 0.091%        |
| 34        | 10.933      | 1501          | 1504        | 1506         | rVB3     | 27737          | 33684         | 1.50%           | 0.100%        |

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 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-2

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.074 | 1526 | 1528 | 1533 | rVB5 | 18763   | 23868   | 1.06%  | 0.071% |
| 36 | 11.145 | 1536 | 1540 | 1541 | rVV  | 53121   | 56965   | 2.53%  | 0.169% |
| 37 | 11.169 | 1541 | 1544 | 1549 | rVV2 | 151737  | 183091  | 8.13%  | 0.543% |
| 38 | 11.216 | 1549 | 1552 | 1557 | rVB3 | 84384   | 107250  | 4.76%  | 0.318% |
| 39 | 11.316 | 1566 | 1569 | 1572 | rBV  | 1086135 | 1145869 | 50.86% | 3.396% |
| 40 | 11.345 | 1572 | 1574 | 1578 | rVV  | 1156339 | 1000474 | 44.41% | 2.965% |
| 41 | 11.398 | 1580 | 1583 | 1590 | rVB  | 305917  | 300502  | 13.34% | 0.890% |
| 42 | 11.563 | 1608 | 1611 | 1617 | rBV3 | 127918  | 167301  | 7.43%  | 0.496% |
| 43 | 11.721 | 1635 | 1638 | 1644 | rVB4 | 18515   | 33778   | 1.50%  | 0.100% |
| 44 | 11.827 | 1651 | 1656 | 1658 | rBV2 | 155362  | 187274  | 8.31%  | 0.555% |
| 45 | 11.851 | 1658 | 1660 | 1666 | rVV2 | 159708  | 167992  | 7.46%  | 0.498% |
| 46 | 11.904 | 1666 | 1669 | 1671 | rVV  | 51953   | 51080   | 2.27%  | 0.151% |
| 47 | 11.933 | 1671 | 1674 | 1677 | rVV  | 208622  | 223014  | 9.90%  | 0.661% |
| 48 | 11.957 | 1677 | 1678 | 1682 | rVV  | 79543   | 67693   | 3.00%  | 0.201% |
| 49 | 11.992 | 1682 | 1684 | 1687 | rVB2 | 38301   | 26880   | 1.19%  | 0.080% |
| 50 | 12.116 | 1702 | 1705 | 1708 | rVB  | 99561   | 86429   | 3.84%  | 0.256% |
| 51 | 12.168 | 1712 | 1714 | 1719 | rVB2 | 64858   | 80932   | 3.59%  | 0.240% |
| 52 | 12.263 | 1728 | 1730 | 1734 | rBV2 | 29355   | 28191   | 1.25%  | 0.084% |
| 53 | 12.298 | 1734 | 1736 | 1738 | rVB  | 32069   | 23581   | 1.05%  | 0.070% |
| 54 | 12.368 | 1745 | 1748 | 1751 | rBV3 | 85064   | 97435   | 4.32%  | 0.289% |
| 55 | 12.480 | 1764 | 1767 | 1773 | rVB  | 79286   | 84884   | 3.77%  | 0.252% |
| 56 | 12.539 | 1773 | 1777 | 1781 | rBV  | 1538201 | 1430700 | 63.51% | 4.240% |
| 57 | 12.615 | 1788 | 1790 | 1792 | rVB  | 36009   | 25041   | 1.11%  | 0.074% |
| 58 | 12.692 | 1800 | 1803 | 1808 | rBV  | 78909   | 90607   | 4.02%  | 0.268% |
| 59 | 12.751 | 1809 | 1813 | 1814 | rVV  | 287359  | 309696  | 13.75% | 0.918% |
| 60 | 12.768 | 1814 | 1816 | 1822 | rVV  | 1371281 | 1166463 | 51.78% | 3.457% |
| 61 | 12.815 | 1822 | 1824 | 1828 | rVB  | 69433   | 77775   | 3.45%  | 0.230% |
| 62 | 12.898 | 1834 | 1838 | 1843 | rBV  | 1692883 | 1530470 | 67.93% | 4.535% |
| 63 | 12.945 | 1843 | 1846 | 1849 | rVB  | 67975   | 63782   | 2.83%  | 0.189% |
| 64 | 12.992 | 1849 | 1854 | 1858 | rBV2 | 79688   | 138431  | 6.14%  | 0.410% |
| 65 | 13.033 | 1859 | 1861 | 1864 | rBV  | 35553   | 28217   | 1.25%  | 0.084% |
| 66 | 13.098 | 1864 | 1872 | 1877 | rBV2 | 159513  | 281256  | 12.48% | 0.833% |
| 67 | 13.163 | 1881 | 1883 | 1886 | rVV  | 85274   | 77164   | 3.43%  | 0.229% |
| 68 | 13.204 | 1886 | 1890 | 1896 | rVV3 | 112652  | 163576  | 7.26%  | 0.485% |
| 69 | 13.298 | 1903 | 1906 | 1908 | rBV  | 81202   | 73857   | 3.28%  | 0.219% |
| 70 | 13.327 | 1908 | 1911 | 1914 | rVV2 | 73159   | 73444   | 3.26%  | 0.218% |
| 71 | 13.627 | 1959 | 1962 | 1966 | rVB  | 96212   | 105081  | 4.66%  | 0.311% |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-2

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 3 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 13.721 | 1976 | 1978 | 1979 | rBV  | 92735   | 74992   | 3.33%  | 0.222% |
| 73 | 13.774 | 1984 | 1987 | 1994 | rVV3 | 196832  | 296392  | 13.16% | 0.878% |
| 74 | 13.833 | 1995 | 1997 | 2001 | rVB  | 122523  | 129858  | 5.76%  | 0.385% |
| 75 | 13.915 | 2009 | 2011 | 2013 | rVB  | 52461   | 36116   | 1.60%  | 0.107% |
|    |        |      |      |      |      |         |         |        |        |
| 76 | 13.968 | 2015 | 2020 | 2023 | rVV2 | 1068498 | 1647958 | 73.15% | 4.883% |
| 77 | 13.998 | 2023 | 2025 | 2032 | rVV  | 670572  | 607880  | 26.98% | 1.801% |
| 78 | 14.080 | 2036 | 2039 | 2043 | rVV  | 120949  | 113724  | 5.05%  | 0.337% |
| 79 | 14.362 | 2085 | 2087 | 2090 | rVB  | 114112  | 96029   | 4.26%  | 0.285% |
| 80 | 15.021 | 2195 | 2199 | 2202 | rBV  | 573994  | 865615  | 38.42% | 2.565% |
|    |        |      |      |      |      |         |         |        |        |
| 81 | 15.321 | 2246 | 2250 | 2255 | rBV  | 298307  | 373942  | 16.60% | 1.108% |
| 82 | 15.386 | 2257 | 2261 | 2266 | rVB  | 442616  | 543697  | 24.13% | 1.611% |
| 83 | 15.445 | 2267 | 2271 | 2275 | rBV  | 525238  | 674899  | 29.96% | 2.000% |
| 84 | 16.939 | 2521 | 2525 | 2534 | rVB  | 145174  | 302866  | 13.44% | 0.897% |

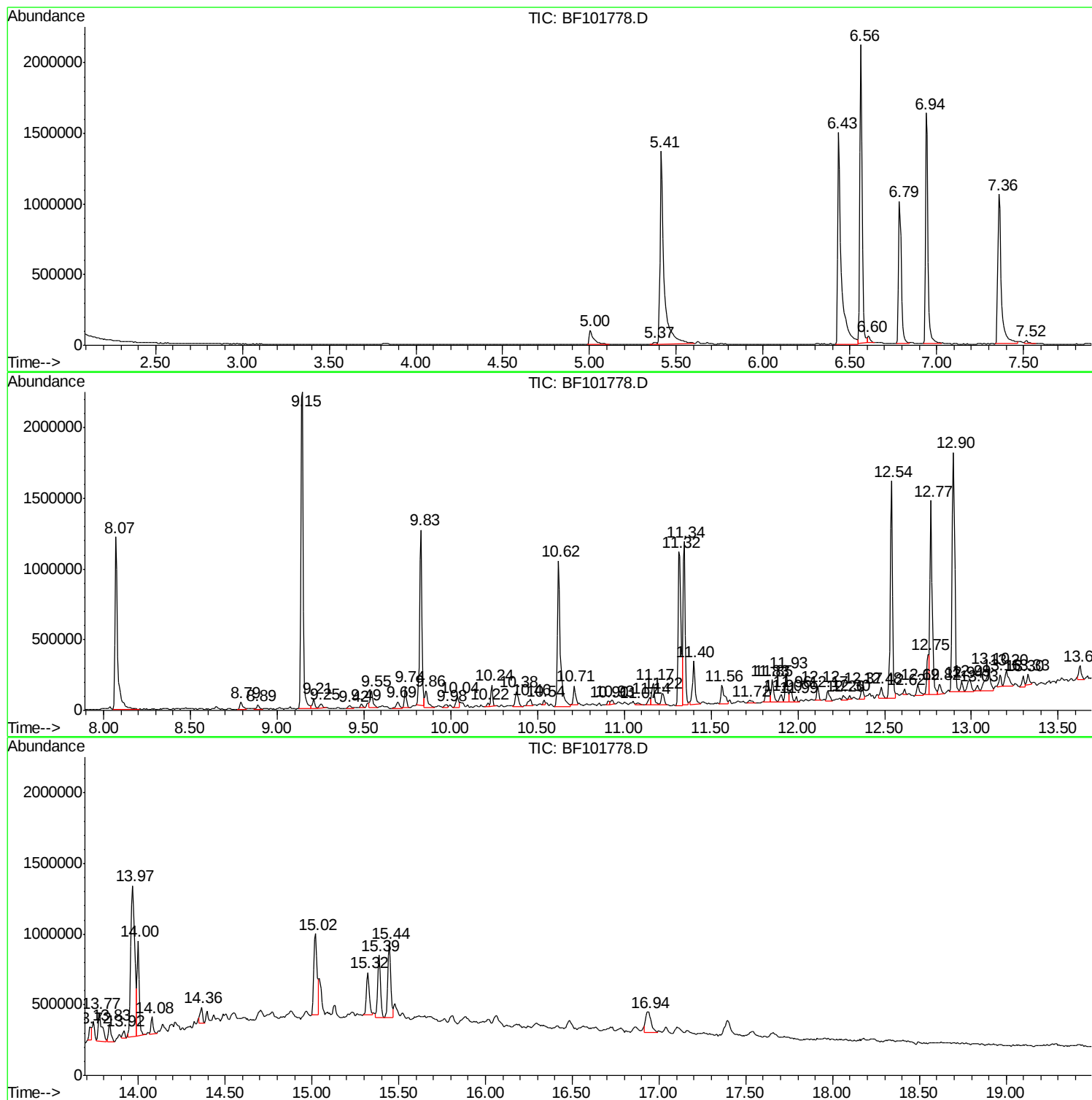
Sum of corrected areas: 33746119

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122717\  
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Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Misc :  
ALS Vial : 19 Sample Multiplier: 1

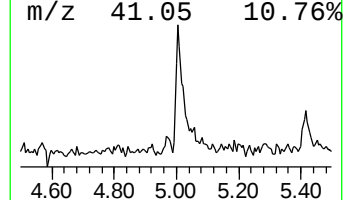
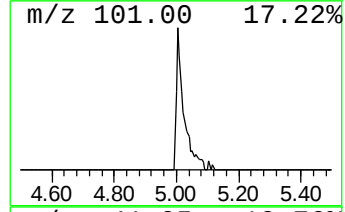
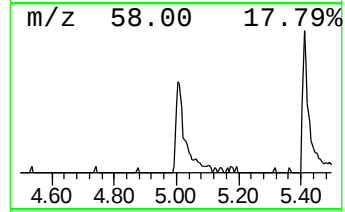
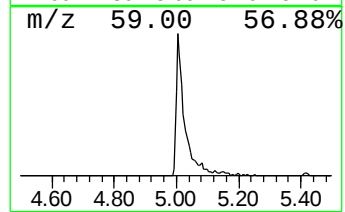
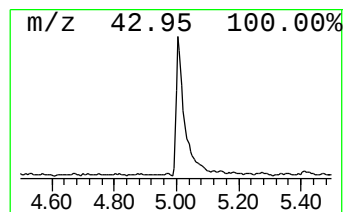
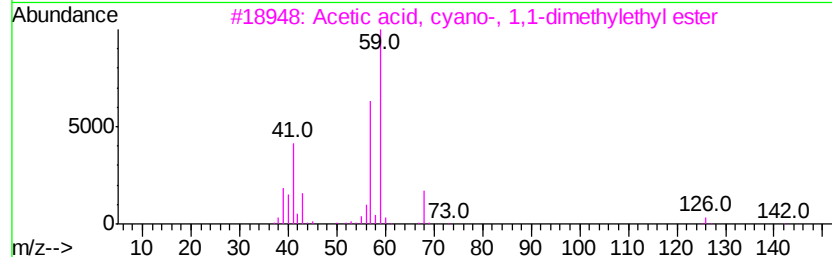
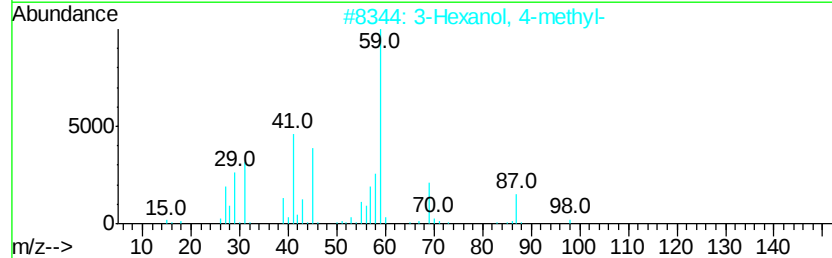
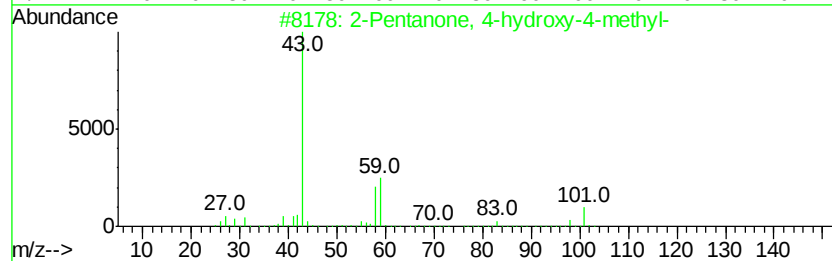
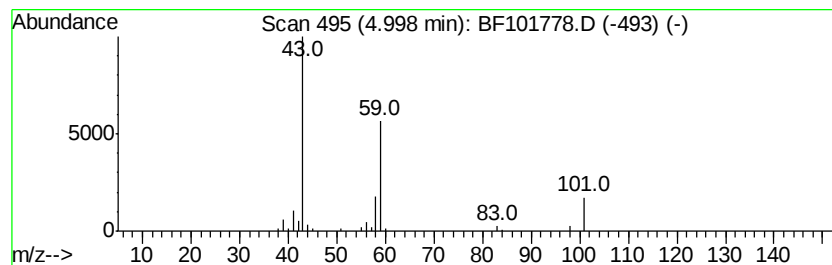
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

| R.T.      | EstConc                              | Area   | Relative to ISTD       | R.T.        |      |
|-----------|--------------------------------------|--------|------------------------|-------------|------|
| 5.00      | 3.91 ng                              | 190470 | 1,4-Dichlorobenzene-d4 | 6.79        |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm                | CAS#        | Qual |
| 1         | 2-Pentanone, 4-hydroxy-4-methyl-     | 116    | C6H12O2                | 000123-42-2 | 50   |
| 2         | 3-Hexanol, 4-methyl-                 | 116    | C7H16O                 | 000615-29-2 | 28   |
| 3         | Acetic acid, cyano-, 1,1-dimethyl... | 141    | C7H11NO2               | 001116-98-9 | 17   |
| 4         | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101    | C4H7NO2                | 016504-58-8 | 9    |
| 5         | 2,3-Butanedione, monooxime           | 101    | C4H7NO2                | 000057-71-6 | 9    |



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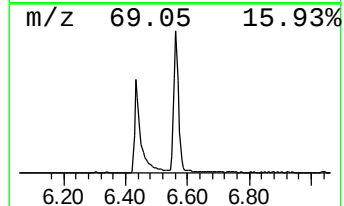
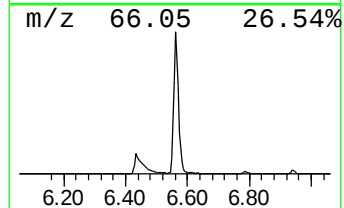
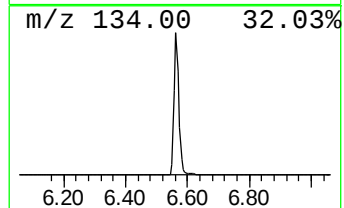
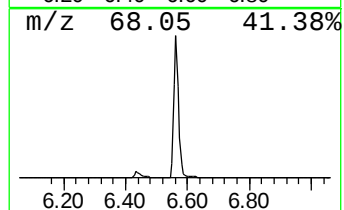
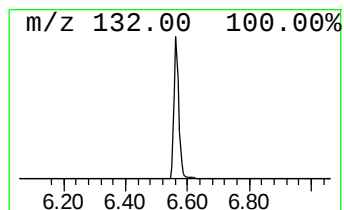
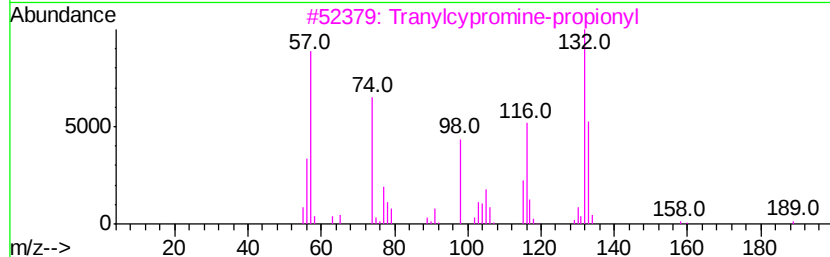
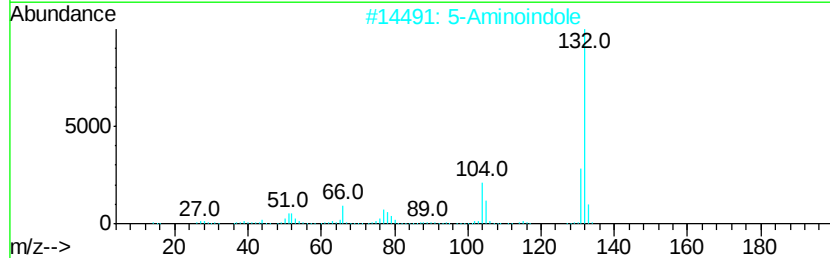
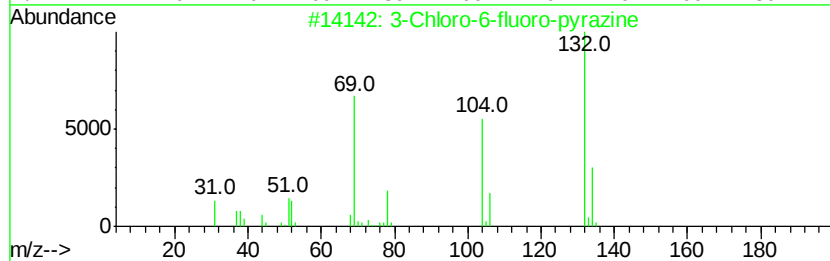
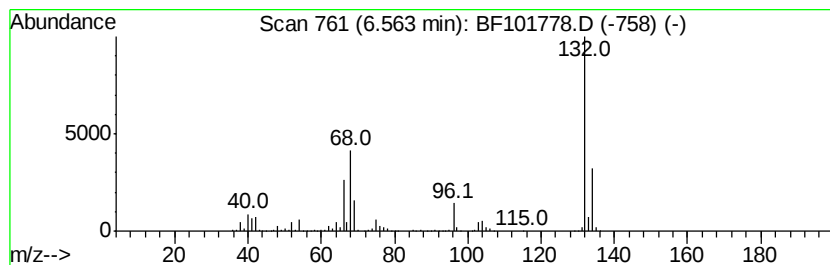
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.56 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.56 | 44.28 ng | 2155830 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine         | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Aminoindole                      | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | Tranvlcyproline-propionyl          | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | 2H-Cyclopentadlpvridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine        | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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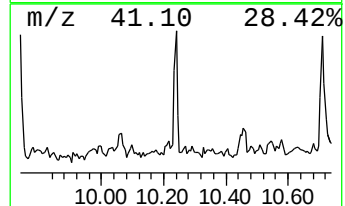
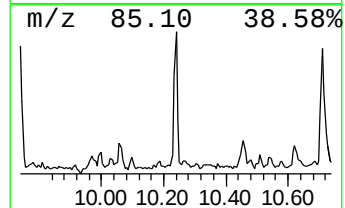
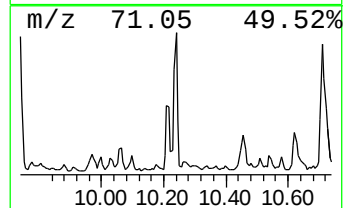
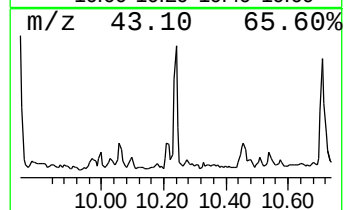
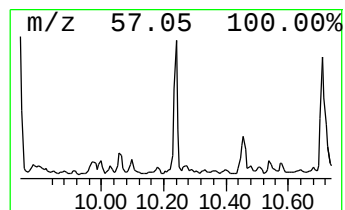
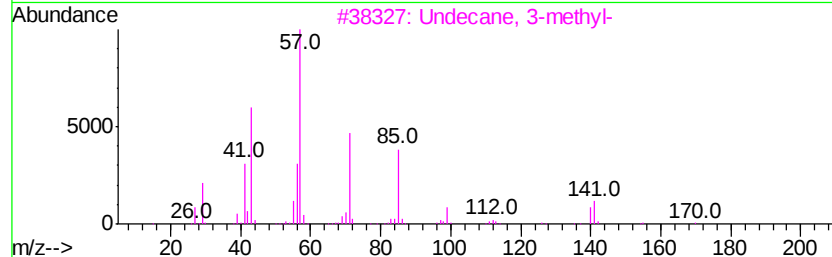
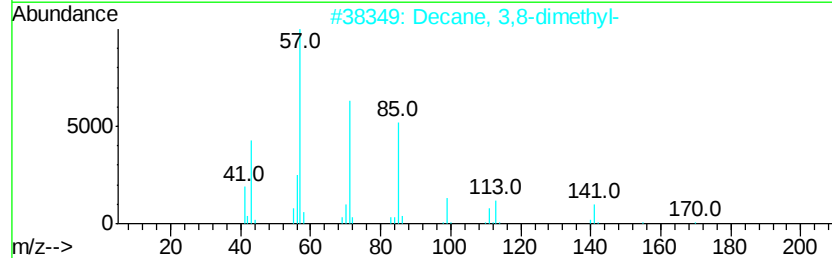
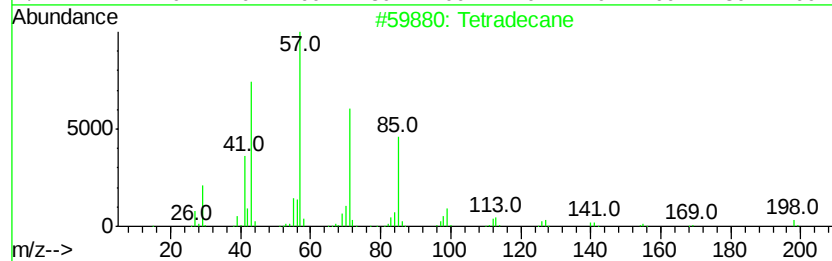
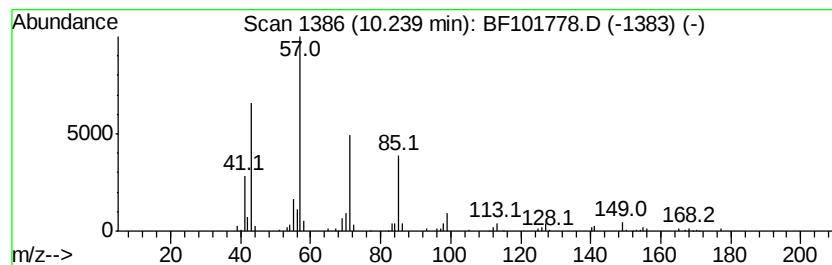
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetradecane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.24 | 2.02 ng | 117709 | Acenaphthene-d10 | 9.83 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane              | 198 | C14H30  | 000629-59-4 | 86   |
| 2    |    | Decane, 3,8-dimethyl-    | 170 | C12H26  | 017312-55-9 | 81   |
| 3    |    | Undecane, 3-methyl-      | 170 | C12H26  | 001002-43-3 | 80   |
| 4    |    | Octane, 2,4,6-trimethyl- | 156 | C11H24  | 062016-37-9 | 80   |
| 5    |    | Dodecane, 1-iodo-        | 296 | C12H25I | 004292-19-7 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

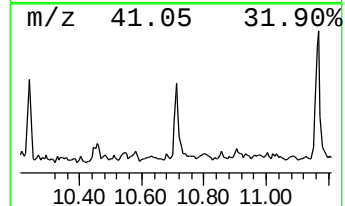
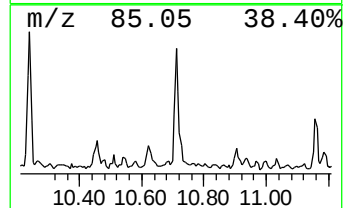
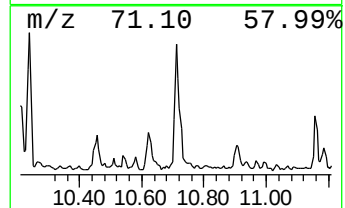
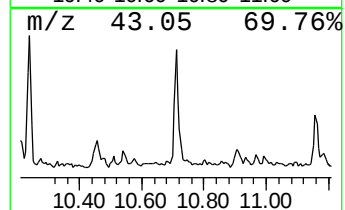
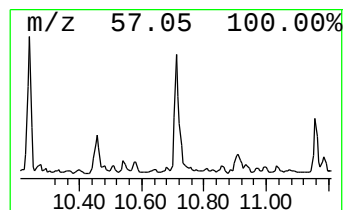
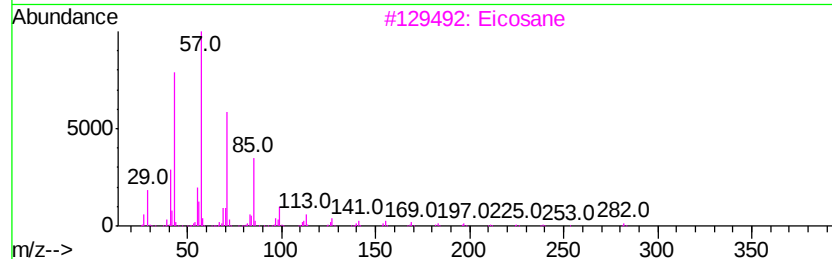
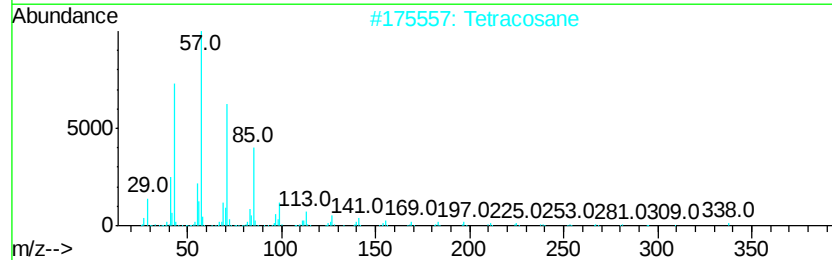
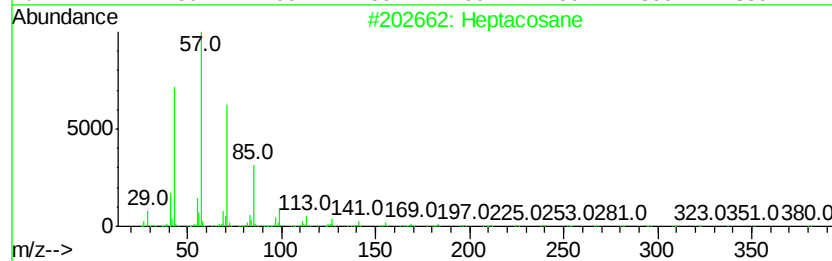
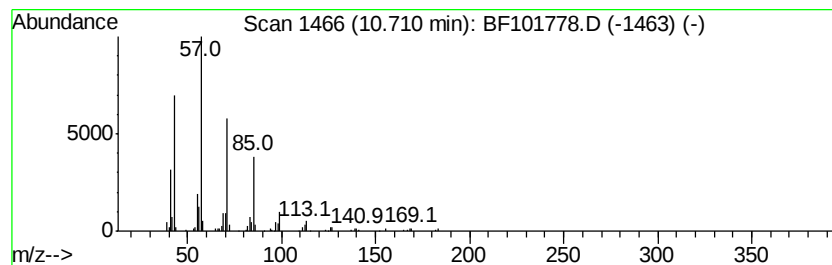
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptacosane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.71 | 2.20 ng | 125811 | Phenanthrene-d10 | 11.32 |

| Hit# of | 5           | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-------------|--------------|-----|---------|-------------|------|
| 1       | Heptacosane |              | 380 | C27H56  | 000593-49-7 | 90   |
| 2       | Tetracosane |              | 338 | C24H50  | 000646-31-1 | 90   |
| 3       | Eicosane    |              | 282 | C20H42  | 000112-95-8 | 86   |
| 4       | Heptadecane |              | 240 | C17H36  | 000629-78-7 | 86   |
| 5       | Hexadecane  |              | 226 | C16H34  | 000544-76-3 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

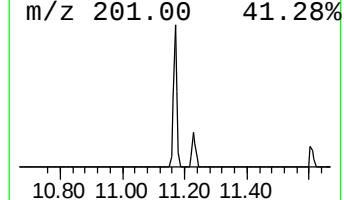
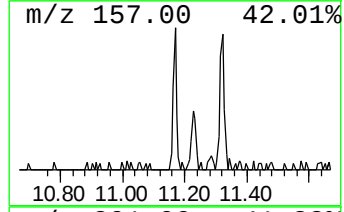
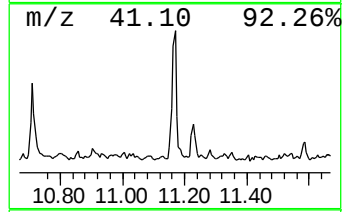
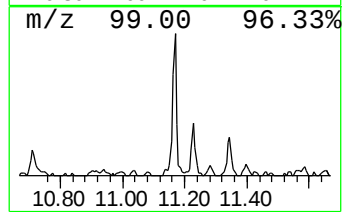
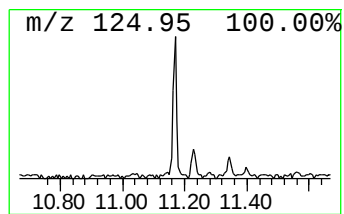
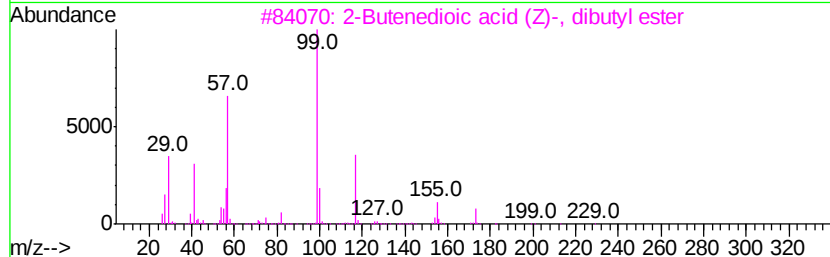
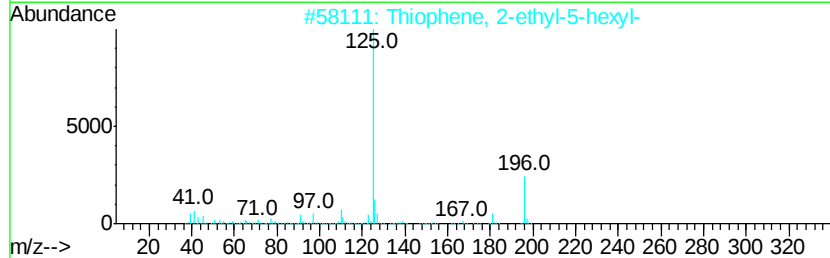
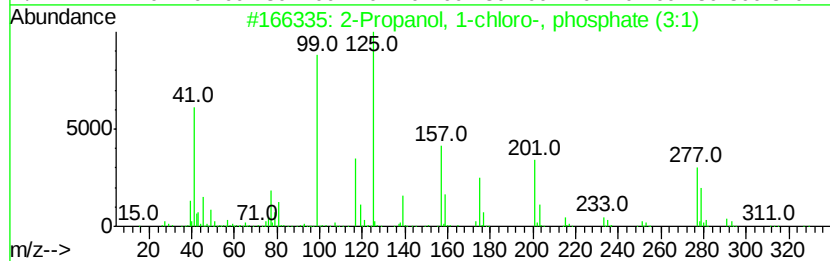
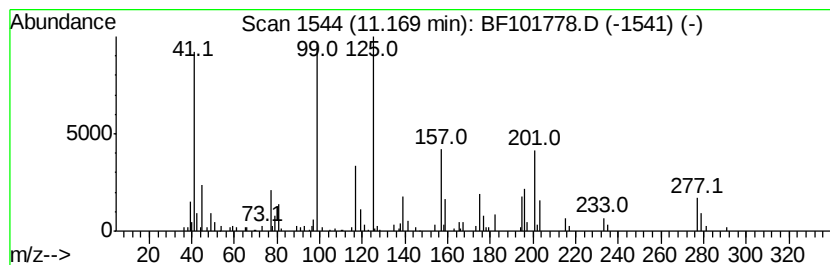
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 2-Propanol, 1-chloro-, phos... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.17 | 3.20 ng | 183091 | Phenanthrene-d10 | 11.32 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | 2-Propanol, 1-chloro-, phosphate... | 326 | C9H18Cl3O4P | 013674-84-5  | 74   |
| 2    |    | Thiophene, 2-ethyl-5-hexyl-         | 196 | C12H20S     | 042908-64-5  | 10   |
| 3    |    | 2-Butenedioic acid (Z)-, dibutyl... | 228 | C12H20O4    | 000105-76-0  | 10   |
| 4    |    | 9,9-Ethylenedioxybicyclo[3.3.1]n... | 196 | C11H16O3    | 1000195-65-2 | 10   |
| 5    |    | 2(1H)-Pyrimidinone, 4-amino-5-me... | 125 | C5H7N3O     | 000554-01-8  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

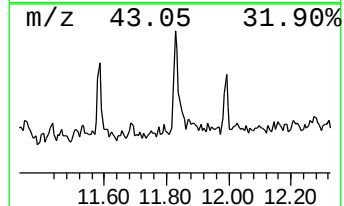
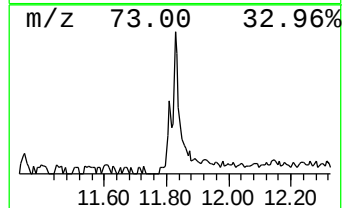
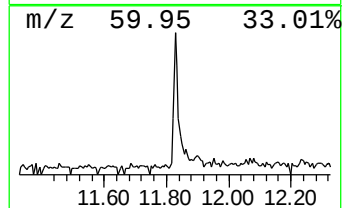
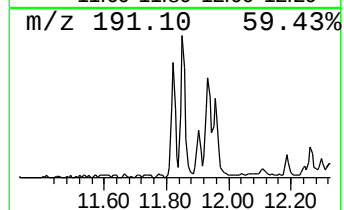
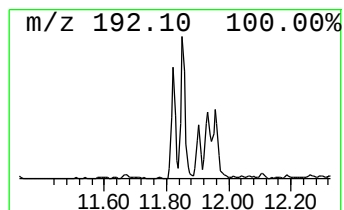
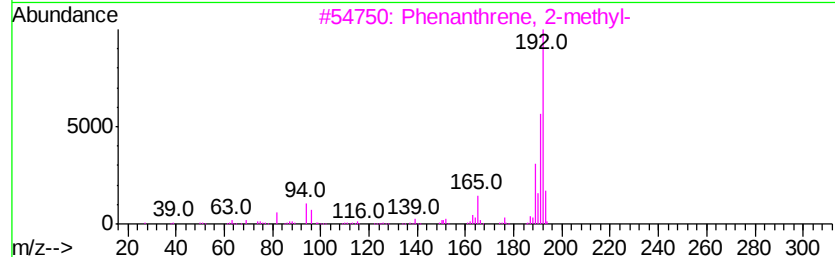
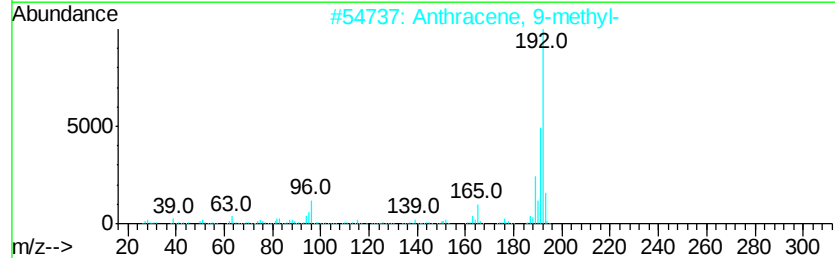
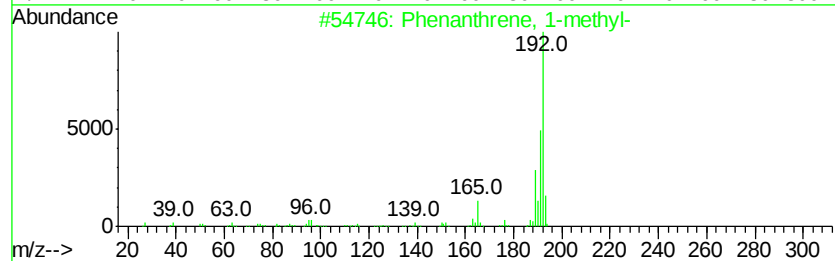
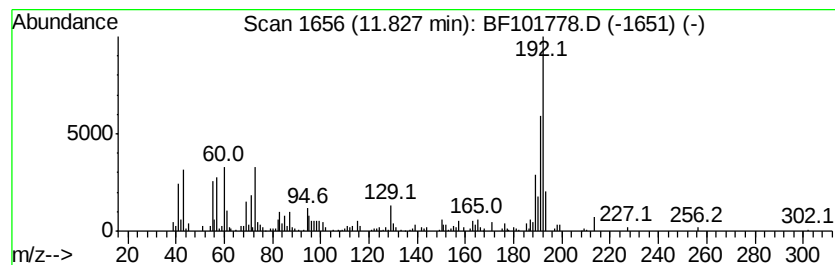
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.83     | 3.27 ng                 | 187274 | Phenanthrene-d10 | 11.32       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 91   |
| 2         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 83   |
| 3         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 83   |
| 4         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 78   |
| 5         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

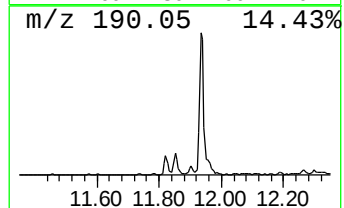
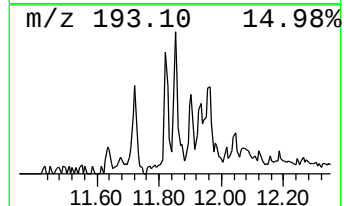
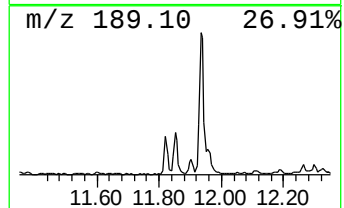
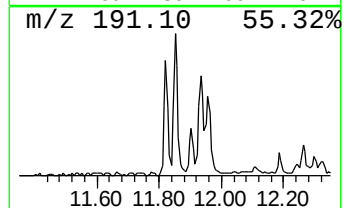
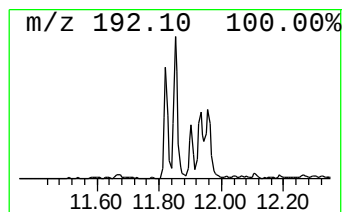
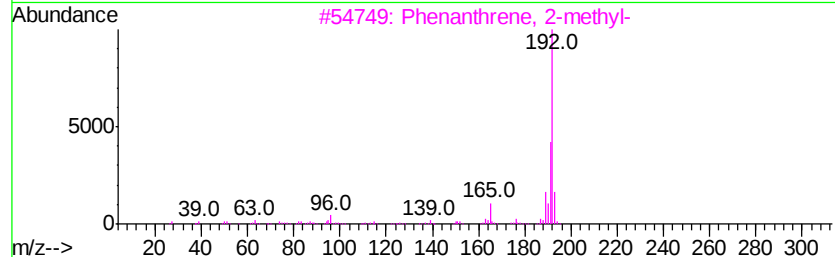
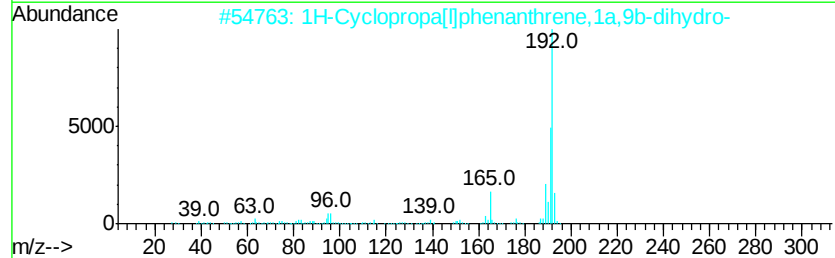
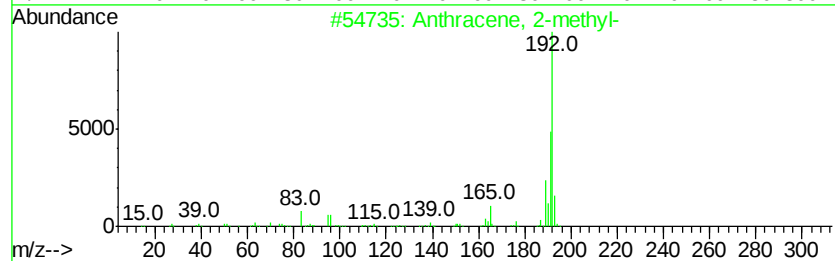
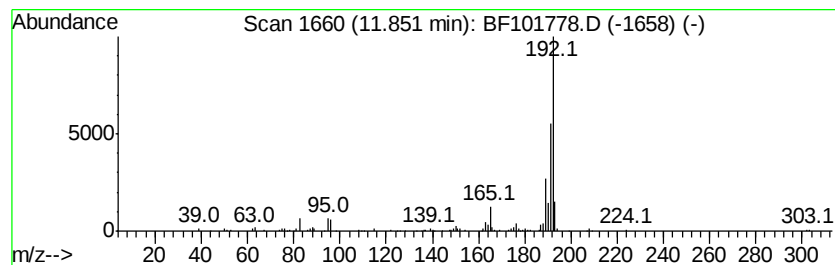
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Anthracene, 2-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.85 | 2.93 ng | 167992 | Phenanthrene-d10 | 11.32 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 2       |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 95   |
| 3       |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 94   |
| 4       |   | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 94   |
| 5       |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 93   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

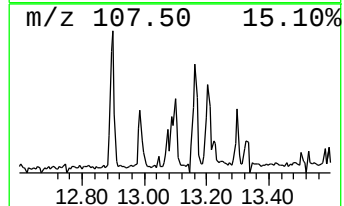
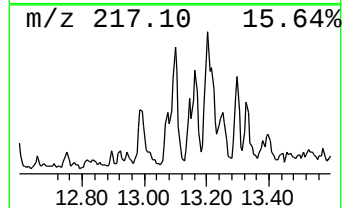
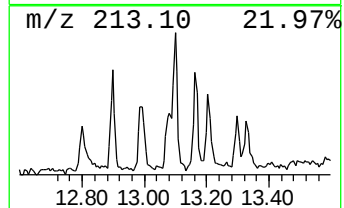
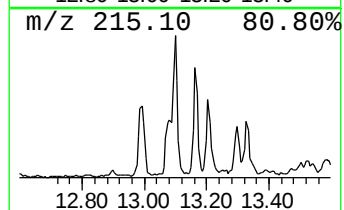
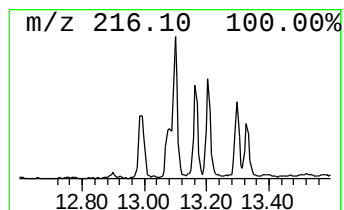
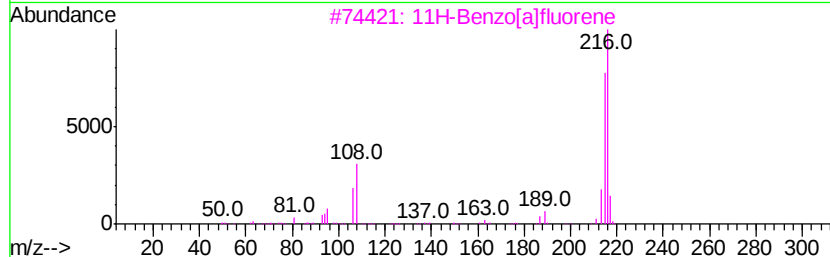
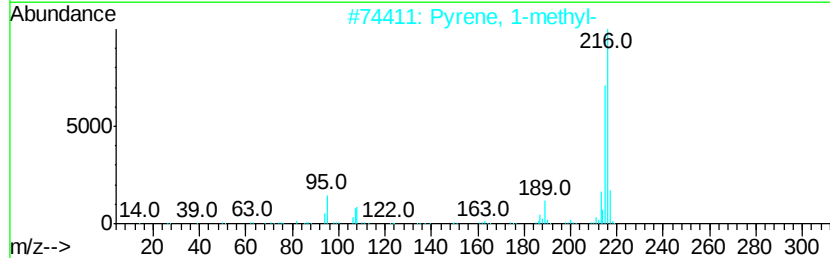
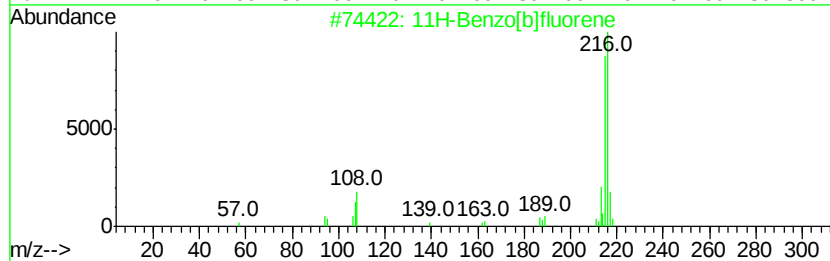
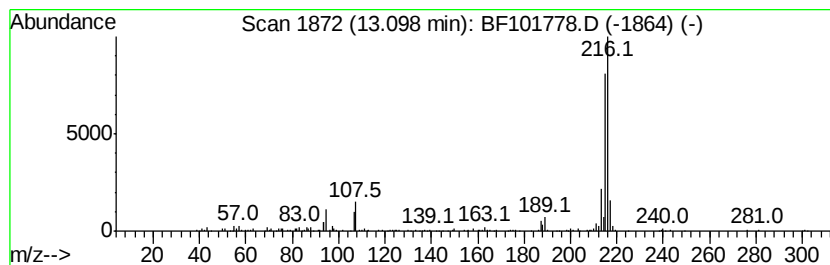
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.10 | 3.41 ng | 281256 | Chrysene-d12     | 13.97 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 87   |
| 2    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 87   |
| 3    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 81   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 76   |
| 5    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 76   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

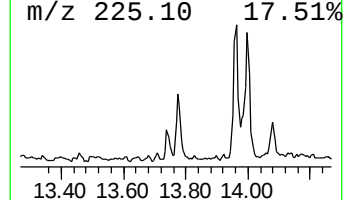
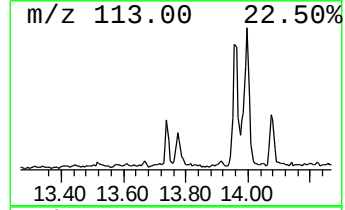
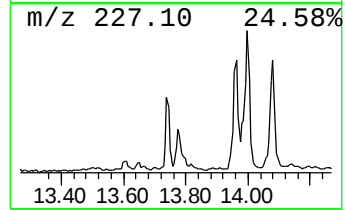
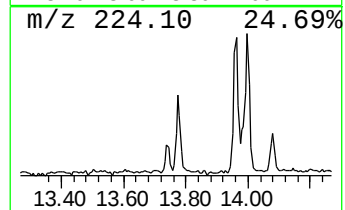
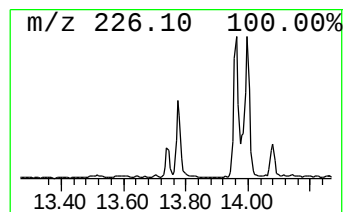
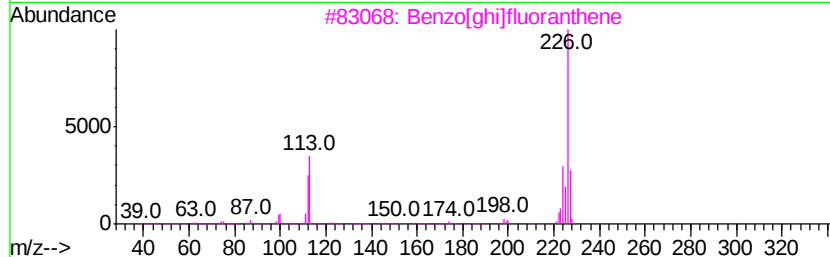
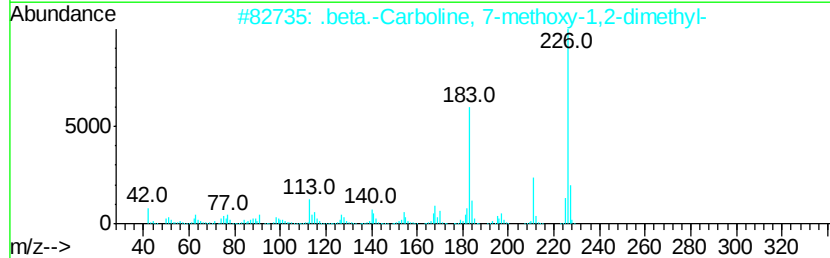
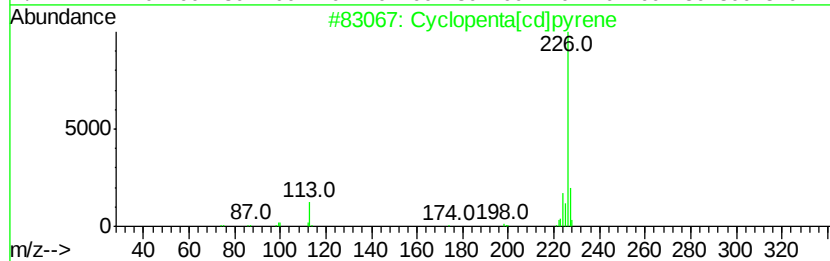
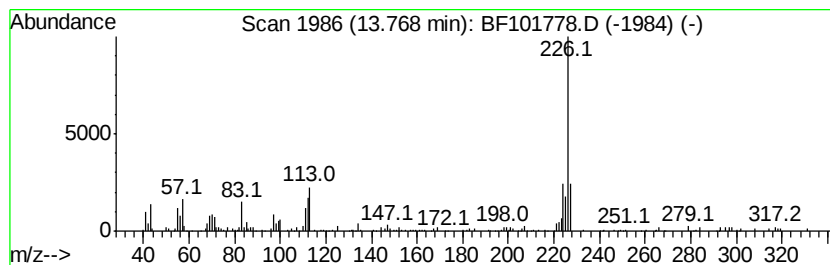
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Cyclopenta[cd]pyrene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.77 | 3.60 ng | 296392 | Chrysene-d12     | 13.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Cyclopenta[cd]pyrene                | 226 | C18H10    | 027208-37-3  | 70   |
| 2    |    | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2  | 52   |
| 3    |    | Benzo[ghi]fluoranthene              | 226 | C18H10    | 000203-12-3  | 38   |
| 4    |    | 9H-Xanthen-9-one, 3-methoxy-        | 226 | C14H10O3  | 003722-52-9  | 38   |
| 5    |    | 4-Naphthalen-2-yl-thiazol-2-ylamine | 226 | C13H10N2S | 1000300-53-4 | 28   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

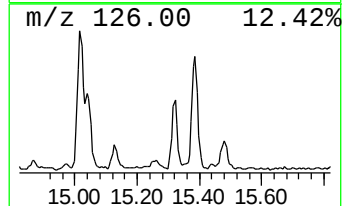
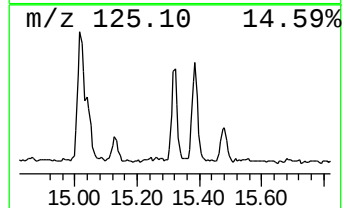
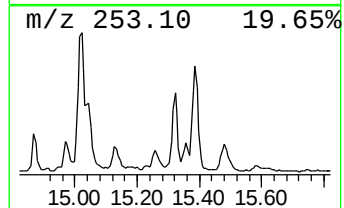
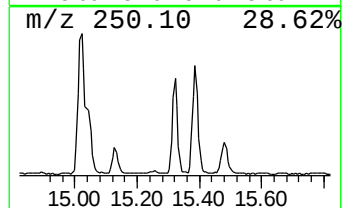
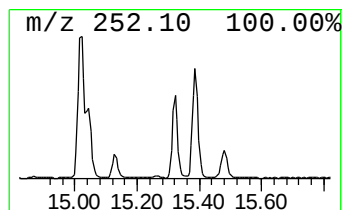
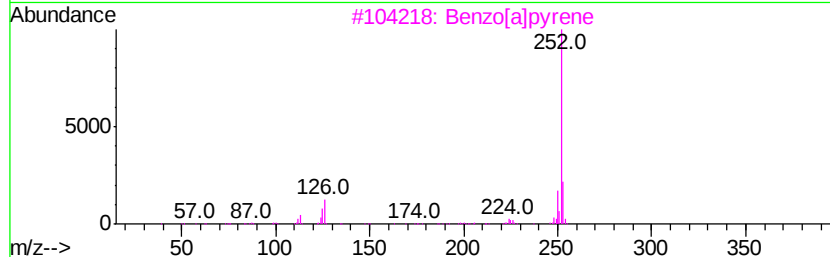
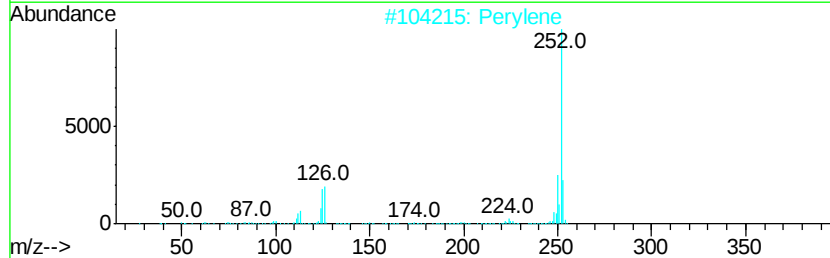
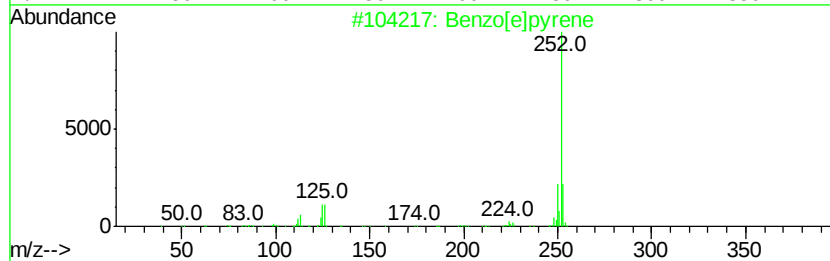
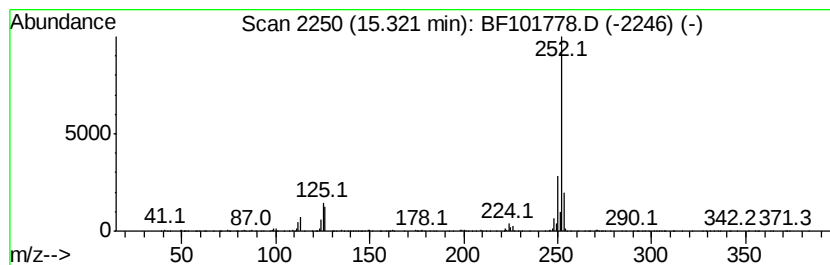
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.32 | 11.08 ng | 373942 | Perylene-d12     | 15.44 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Perylene                 | 252 | C20H12  | 000198-55-0 | 95   |
| 3    |    | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 93   |
| 4    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 90   |
| 5    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122717\  
Data File : BF101778.D  
Acq On : 27 Dec 2017 22:22  
Operator : SJ/JU  
Sample : I7064-03 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 5.00  | 3.9     | ng    | 190470   | 1                     | 6.79  | 973744  | 20.0 |
| unknown6.56          | 6.56  | 44.3    | ng    | 2155830  | 1                     | 6.79  | 973744  | 20.0 |
| Tetradecane          | 10.24 | 2.0     | ng    | 117709   | 3                     | 9.83  | 1165530 | 20.0 |
| Heptacosane          | 10.71 | 2.2     | ng    | 125811   | 4                     | 11.32 | 1145870 | 20.0 |
| 2-Propanol, 1-chl... | 11.17 | 3.2     | ng    | 183091   | 4                     | 11.32 | 1145870 | 20.0 |
| Phenanthrene, 1-m... | 11.83 | 3.3     | ng    | 187274   | 4                     | 11.32 | 1145870 | 20.0 |
| Anthracene, 2-met... | 11.85 | 2.9     | ng    | 167992   | 4                     | 11.32 | 1145870 | 20.0 |
| 11H-Benzo[b]fluorene | 13.10 | 3.4     | ng    | 281256   | 5                     | 13.97 | 1647960 | 20.0 |
| Cyclopenta[cd]pyrene | 13.77 | 3.6     | ng    | 296392   | 5                     | 13.97 | 1647960 | 20.0 |
| Benzo[e]pyrene       | 15.32 | 11.1    | ng    | 373942   | 6                     | 15.44 | 674899  | 20.0 |